Journal of Computer-Based Instruction
May 1982, Vol. 8, No. 4, 94-97.

INDEX TO VOLUME 8

AUTHOR INDEX

Adorni, G. Evaluation of a Formal Approach to the Structuring of Subject Matter, **2**: 35.

Alderson, S.F. A Comparison of the Effects of Computer-Assisted Instruction Versus Printed Instruction on Student Learning in the Cognitive Categories of Knowledge and Application, **1**: 13.

Anderson, R.I. A Computer-Based Private Pilot (Airplane) Certification Exam: A First Step Toward Nation-Wide Computer-Administration of FAA Certification Exams, **3**: 65.

Birenbaum, M. Effects of Instructional Backgrounds on Test Performances, **1**: 1.

Boettcher, E.G. A Comparison of the Effects of Computer-Assisted Instruction Versus Printed Instruction on Student Learning in the Cognitive Categories of Knowledge and Application, **1**: 13.

Buck, J.A. Federal Aviation Administration Seventh Year Computer-Based Training Report, **3**: 53.

Conkright, T.D. PLATO Applications in the Airline Industry, **3**: 49.

Cumming, G. Evaluation of Computer Speech for Use with CAI for Young Children, **2**: 22.

Di Manzo, M. Evaluation of a Formal Approach to the Structuring of Subject Matter, **2**: 35.

Feurzeig, W. Articulate Diagnostic Methods for Analysis of Flight Performance, **3**: 56.

Frisiani, A.L. Evaluation of a Formal approach to the Structuring of Subject Matter, **2**: 35.

Furuta, B.A. Interactive Effects of Prior Knowledge of "Credit Costs" Concepts and Math Skills and Mode of Programmed Instruction, **1**: 9.

Gaynor, P. The Effect of Feedback Delay on Retention of Computer-Based Mathematical Material, **2**: 28.

Hillelsohn, M.J. Human Factors Considerations for Computer-Based Training, **4**: 74.

Kearsley, G.P. Human Factors Considerations for Computer-Based Training, **4**: 74.

Kent, P. Computer-Based Instruction in Dietetics Education, **4**: 85.

Lukas, G. Articulate Diagnostic Methods for Analysis of Flight Performance, **3**: 56.

McCorrison, M. Evaluation of Computer Speech for Use with CAI for Young Children, **2**: 22.

Masuo, D.M. Interactive Effects of Prior Knowledge of "Credit Costs" Concepts and Math Skills and Mode of Programmed Instruction, **1**: 9.

Morgan, C. *Peter Dean Lecture.* Computer Support for Public Schools: A Challenge and an Appeal, **4**: 71.

Rushinek, A. The Effects of Computer Assisted Instruction upon Computer Facility and Instructor Ratings, **2**: 43.

Rushinek, S.F. The Effects of Computer Assisted Instruction upon Computer Facility and Instructor Ratings, **2**: 43.

Saccucci, M.S. A Comparison of the Effects of Computer-Assisted Instruction Versus Printed Instruction on Student Learning in the Cognitive Categories of Knowledge and Application, **1**: 13.

Schroeder, L. Computer-Based Instruction in Dietetics Education, **4**: 85.

Stefanescu, D. Articulate Diagnostic Methods for Analysis of Flight Performance, **3**: 56.

Steinberg, E.R. Book Review. *A Planning Guide to Successful Computer Instruction*, **4**: 91.

Stutz, J. The Effects of Computer Assisted Instruction upon Computer Facility and Instructor Ratings, **2**: 43.

Tatsuoka, K. Effects of Instructional Backgrounds on Test Performances, **1**: 1.

Trollip, S.R. A Computer-Based Private Pilot (Airplane) Certification Exam: A First Step Toward Nation-Wide Computer-Administration of FAA Certification Exams, **3**: 65.

SUBJECT INDEX

a

Academic gaming; **1**: 21.
Adaptive achievement measurement; **1**: 1.
Adaptive Differential Pulse-Code Modulation; **2**: 22.
Adaptive testing techniques; **1**: 1.
APL; **4**: 86.
Apple II microcomputer; **1**: 20; **2**: 22.
Applications of microprocessors in the schools; **1**: 19.
Applied artificial intelligence; **3**: 56.
Aptitude-Treatment Interaction (ATI); **1**: 9.
Articulate diagnostic methods for analysis of flight performance; **3**: 56.
Aspects of educational computing; **1**: 20.
Aspects on which instructional modes differed; **1**: 10.
ATI studies in PI; **1**: 9.
Axiomatic approach to subject matter; **2**: 35.

b

Basic components of instructional model; **2**: 35.

BASIC computer programming language; **2**: 44.
Behavioral hierarchy; **2**: 37.
Benefits of CBT; **3**: 54.
Bloom's Taxonomy of Educational Objectives; **1**: 10, 13; **2**: 29, 40.
Built-In Test Equipment (BITE); **3**: 51.

c

CAI for beginning readers; **2**: 23.
CAI for young children; **2**: 22.
CAI topics for the secondary education teacher; **1**: 18.
CAI versus programmed instruction versus conventional text; **1**: 9.
Canonical errors; **3**: 62.
CBI model to teach renal diet therapy; **4**: 86.
"CBT Full System"; **3**: 54.
Characterization of performance; **3**: 60.
Classical test theory; **1**: 1.
Classification of error and correction segments; **3**: 61.
Cluster analysis; **1**: 5.
Codec speech; **2**: 22, 24.
Cognitive category of learning; **1**: 13.
Cognitive domain; **2**: 29.
Computer-administration of FAA exams; **3**: 65.
Computer-assisted instruction (CAI); **1**: 13.
  fields
    aviation; **3**: 49.
    business administration; **2**: 43.
    economics; **1**: 10.
    electronic engineering; **2**: 37.
    math; **2**: 28.
    nursing; **1**: 14.
    reading; **2**: 22.
Computer-assisted learning in U.S. secondary and elementary schools; **1**: 18.
Computer-augmented learning environments; **1**: 18.
Computer-based instruction (CBI) in dietetics; **4**: 85.
Computer-based learning (CBL); **3**: 49.
Computer-based learning in the basic skills; **2**: 48.
Computer-based pattern recognition methods; **3**: 56.
Computer-based simulation; **4**: 78.
Computer-based student achievement information system; **2**: 48.
Computer-based training (CBT); **3**: 53; **4**: 74.
  fields
    aviation; **3**: 49, 53, 56.
Computerized testing; **1**: 1, 21; **3**: 65.
Computer-managed instruction (CMI); **1**: 20; **3**: 49, 66.
  fields
    aviation; **3**: 49, 53, 66.
    reading; **1**: 20.
Computer managed instruction in the Navy; **1**: 20.
Computer-managed instruction software: **3**: 53.
Computer Readability Editing System (CRES); **2**: 48.
Computer science and technology; **1**: 21.
Computer speech and CAI; **2**: 22.
Computer support for public schools; **4**: 71.
Concept areas; **2**: 37.
Conditional response rate; **1**: 7.
Constituents; **2**: 35.
Context conditioned behavioral objectives; **2**: 35.
Continuously Variable Slope Delta Modulation; **2**: 22.
Corrections types; **3**: 61.
Cost benefits; **3**: 53.
Credit learning evaluator; **1**: 11.

d

Davies' matrix; **2**: 37.
Degree of original learning versus feedback on retention of materials; **2**: 33.
Delay of reinforcement; **2**: 28.
Delay-Retention Effect; **2**: 29.
Development of a data bank of educational software; **1**: 19.
Diagnosis of errors; **3**: 62.
Diagnostic-prescriptive approach; **2**: 48.
Digitizer; **3**: 51.
Dimensionality of achievement tests; **1**: 2.
Disadvantage of distributed CBT; **3**: 54.
Dynamic computer graphics; **1**: 19.

e

Educational use of microcomputers; **1**: 18.
Effects of computer assisted instruction upon computer facility and instructor ratings; **2**: 43.
Effects of instructional backgrounds on test performances; **1**: 1.
Effects of student/instructor ratio on student achievement and instructor performance; **1**: 20.
Elements of the GCN; **2**: 35.
Employing graphics in a videodisc training delivery system; **1**: 19.
Ergonomics; **4**: 74.
Error types; **3**: 61.
Evaluating microcomputer courseware; **2**: 47.
Evaluation of attitudinal changes due to the implementation of CAI; **2**: 43.
Evaluation process; **2**: 47.

f

FAA computer-based training report; **3**: 53.
Factors affecting the implementation and operation of CBE projects in military settings; **1**: 19.
Factors favoring the use of CAI; **1**: 17.
Feedback in CAI; **2**: 28, 31.

Forced mastery; **1**: 14.
Formal approach to the structuring of subject matter; **2**: 35.
FORTRAN; **1**: 9; **2**: 37.
Futurists; **4**: 71.

g

General Cognitive Net (GCN); **2**: 35.
Generic error recognition programs; **3**: 63.
Goals and assumptions in the planning phase of a CBE project; **1**: 19.
Graphics display system; **3**: 50, 56.
Guidelines for use of graphics in instructional applications of the videodisc; **1**: 19.

h

Hamblen's series of inventories of computers in higher education; **1**: 20.
Hardware considerations in a CBT system; **4**: 81.
Hazard rate function; **1**: 7.
Hierarchical cluster analysis; **1**: 5.
Hierarchical regression analysis; **1**: 11.
Hierarchy of achievement; **1**: 18.
Hierarchy of goals; **2**: 35.
Human factors considerations for CBT; **4**: 74.

i

Implementation of computer technology in schools; **2**: 48.
Improving user attitudes toward the computer and the ratings of the instructor; **2**: 46.
Information-processing view of mental abilities; **1**: 7.
Initial mastery; **2**: 29.
Initial student learning; **1**: 14.
Instructional background and test performance; **1**: 1.
Instructional design considerations for CBT materials; **4**: 78.
Instructional software; **1**: 19.
Intelligent instructional support system; **3**: 64.
Interaction of prior knowledge and instructional mode; **1**: 10.
Interactive computer-assisted testing for multiple-choice items; **2**: 47.
Interactive computing; **1**: 21.
"Interim CBT System"; **3**: 54.
ISD for videodisc training systems; **1**: 19.
Issues pertinent to microcomputer innovations in the schools; **2**: 48.
Item Characteristic Curve Theory (ICCT); **1**: 1.

k

Kearney's 12-item free-response-type test of mathematical and logical operations; **2**: 30.
Knowledge-based pattern recognition methods; **3**: 56.

l

Learning objectives in the cognitive categories of knowledge and application; **1**: 13.
Level of frustration; **2**: 34.
Levels of intellectual ability; **2**: 29.
Linearization of flight data; **3**: 59.
Linear Predictive Coding; **2**: 22.

m

Major impediments to CAI usage in secondary schools; **1**: 18.
Management considerations in a CBT project; **4**: 77.
Measurement and evaluation of interactive computing; **1**: 21.
Microcomputers in education; **1**: 18, 19; **2**: 47.
Microprocessors; **1**: 19.
MicroSIFT; **2**: 47.
Motivational variables in self-paced CBT instruction; **4**: 81.
Myths about CBE development; **1**: 19.

n

National trends and local concerns of education; **4**: 71.
Needs of minority colleges and universities in educational computing: **1**: 20.
Nursing education; **1**: 13.

o

Omega Navigation System (ONS); **3**: 49.
Order analysis; **1**: 7.
ORLY Flight Simulation and Training System; **3**: 56.

p

Partial ordering; **2**: 37.
Pattern recognition grammar; **3**: 62.
Performance analysis studies; **3**: 57.
Phases of processing; **3**: 59.
PLATO; **1**: 3, 15, 19; **3**: 49, 65.
PLATO applications in the airline industry; **3**: 49, 52.
PLATO Assisted Learning (PAL); **3**: 49.
PLATO-based training; **3**: 51.
PLATO computer-based education system; **3**: 65.
PLATO Elementary Reading Curriculum (PERC); **2**: 22.
PLATO graphic simulation; **3**: 49.
PLATO Learning Manager (PLM); **3**: 49.
Poisson process; **1**: 7.
Printed programmed instruction; **1**: 13.

Problems of integrating computer technology into the educational process; **4**: 72.
Programmed instruction (PI); **1**: 9.
Project Impact; **2**: 48.
Psychometric theory; **1**: 1.

r

Reactions to the computer-based system; **3**: 68.
Reading readiness concepts; **1**: 20.
Relationship between human factors and CBT research; **4**: 74.
Relationship between the task-oriented and the content-oriented constituents; **2**: 37.
Relationship of graphics to learner characteristics; **1**: 19.
Relationships among CAI, students' attitudes and instructors' attitudes; **2**: 43.
Representation of subject matter; **2**: 35.
Respond-until-correct (RUC) testing method; **2**: 47.
Retention of computer-based material; **2**: 28.
Retention of learning; **1**: 14.
Retroactive inhibition effect; **1**: 6.
Rough characterization of performance; **3**: 60.
Routing system; **1**: 3.
Runs test; **2**: 41.

s

Self-administered symbolic reinforcers and verbal cues; **2**: 28.
Semantic description of segments; **3**: 61.
"Software psychology"; **4**: 74.
S-P curve theory; **1**: 7.
Speech coding techniques; **2**: 23.
Staff selection and retention; **1**: 19.
Stand-alone flight training sysem; **3**: 56.
Strategies to promote the use of CBL; **2**: 48.
Student/instructor ratios in CMI; **1**: 20.
Students perceptions of CAI quality; **2**: 43.
Summagraphics Bit Pad; **3**: 51.
Supertalker speech; **2**: 22.

t

Tailored testing; **1**: 1; **2**: 47.
Task-in-context structure; **2**: 35.
Teaching elementary reading by CMI and CAI; **1**: 20.
Technical training; **3**: 53.
Testing and evaluation via CBT; **4**: 80.
Testing speech quality; **2**: 26.
Time-sharing computer-based learning system; **2**: 48.
Touch sensitive screen; **3**: 50.
Treatment effects of PI; **1**: 9.
Training/orientation for CBT; **4**: 77.

u

Unidimensionality of data; **1**: 2.
Use of CAI as a supplement to instruction; **2**: 45.
Use of "personal computers" in the K-12 curriculum; **1**: 19.
Use of the Apple II microcomputer by preschool children to test reading skills; **1**: 20.
User evaluations of software on a commercial time-shared system; **1**: 19.
"User friendly" computer systems; **4**: 82.
User involvement in a CBT project; **4**: 75.

TITLE INDEX

Articulate Diagnostic Methods for Analysis of Flight Performance. Feurzeig, W., Lukas, G., Stefanescu, D., **3**: 56.

Book Review. *A Planning Guide to Successful Computer Instruction*. Steinberg, E.R., **4**: 91.

A Comparison of the Effects of Computer-Assisted Instruction Versus Printed Instruction on Student Learning in the Cognitive Categories of Knowledge and Application. Boettcher, E.G., Alderson, S.F., Saccucci, M.S., **1**: 13.

Computer-Based Instruction in Dietetics Education. Schroeder, L., Kent, P., **4**: 85.

Computer Support for Public Schools: A Challenge and an Appeal *(Peter Dean Lecture)*. Morgan, C., **4**: 71.

The Effect of Feedback Delay on Retention of Computer-Based Mathematical Material. Gaynor, P., **2**: 28.

The Effects of Computer Assisted Instruction upon Computer Facility and Instructor Ratings. Rushinek, A., Rushinek, S.F., Stutz, J., **2**: 43.

Effects of Instructional Backgrounds on Test Performance. Tatsuoka, K., Birenbaum, M., **1**: 1.

ERIC Research Abstracts. **1**: 18; **2**: 47; **4**: 92.

Evaluation of a Formal Approach to the Structuring of Subject Matter. Adorni, G., Di Manzo, M.F., Frisiani, A.L., **2**: 35.

Evaluation of Computer Speech for Use with CAI for Young Children. Cumming, G., McCorriston, M., **2**: 22.

Federal Aviation Administration Seventh Year Computer-Based Training Report. Buck, J.A., **3**: 53.

Human Factors Considerations for Computer-Based Training. Kearsley, G.P., Hillelsohn, M.J., **4**: 74.

Interactive Effects of Prior Knowledge of "Credit Costs" Concepts and Math Skills and Mode of Programmed Instruction. Masuo, D.M., Furuta, B.A., **1**: 9.

PLATO Applications in the Airline Industry. Conkright, T.D., **3**: 49.